

## List of keywords

*in alphabetical order*

Acute Lymphoblastic Leukemia (ALL)  
Acute Myeloid Leukemia (AML)  
Adenovirus  
Adjuvant therapy  
Aging and cancer  
AIDS/HIV/Kaposi  
Androgen and/or receptors  
Aneuploidy  
Angiogenesis and/or vasculogenesis  
Animal models  
Anti-angiogenic therapy  
Antibody/mAb therapy  
Apoptosis  
Aromatase and/or inhibitors  
Artificial intelligence  
ATM pathway  
ATR pathway  
Autoimmunity/Autoantibodies  
Autophagy  
B cells  
bcl2 family  
BCR-Abl/Abl  
Biliary tract carcinoma/Cholangiocarcinoma  
Biobanking  
Biochemistry  
Bioinformatics  
Biomarkers  
Biomaterial  
Biomolecular modelling  
Biophysics  
Bladder tumor  
Body mass index (BMI) and/or obesity  
Bone disease  
Bone morphogenetic protein (BMP)  
BRAF/RAF kinases  
Brain and/or nervous system tumors  
BRCA  
Breast ca.  
Burkitt lymphoma  
C.elegans  
Cachexia  
Cadherins  
Cancer evolution  
Cancer stem cells  
Cancer-associated fibroblasts  
CAR engineered cells  
Carcinogenesis  
Caspases  
Caveolin  
CD133/Stem cell markers  
Cell adhesion and/or cell adhesion molecules  
Cell cycle  
Cell cycle checkpoint G1/S  
Cell cycle checkpoint G2/M  
Cell differentiation and/or differentiation therapy  
Cell metabolism  
Cell migration, motility and/or invasion  
Cell polarity

Cell signaling  
Centrosome  
Cervix or endometrial ca.  
Chemistry  
Chemoimmunotherapy  
Chemokines  
Chemotherapy and/or chemotherapeutic drugs  
Chromatin remodeling  
Chronic Lymphocytic Leukemia (CLL)  
Chronic Myeloid Leukemia (CML)  
Circadian clock  
Circulating tumor cells  
Circulating tumor DNA  
Clinical practice guidelines  
Clinical trials  
Colorectal and/or Intestinal ca.  
Combination therapy  
Comparative genomics hybridization (CGH)  
Complement system  
Computational biology  
Computer Tomography (CT Scan)  
Costimulatory molecules  
COX2  
CRISPR/Cas9  
Crosstalk  
Crystallography  
Cyclic AMP  
Cyclins and/or inhibitors  
Cytogenetics and/or chromosome alterations  
Cytokines/Interleukins  
Cytokinesis  
Cytoskeleton  
Cytotoxic T Lymphocytes (CTL)  
Dendritic cells  
Diagnosis  
Diet  
Digital pathology  
DNA damage  
DNA double strand break repair (DSBR)  
DNA methylation  
DNA recombination  
DNA repair  
DNA replication  
DNA single strand break repair (SSBR)  
Docking  
Drosophila  
Drug delivery  
Drug discovery and/or development  
Drug metabolism  
Drug repurposing  
Drug response and/or resistance  
Drug screening  
Drug toxicity  
EGF and/or receptors  
Embryonic development  
Endocrinology  
Endocytosis  
Endoplasmic reticulum (ER)  
Endoscopy  
Endothelial cells  
Environmental health  
Epidemiology  
Epigenetics  
Epithelial mesenchyme transition (EMT)

Epstein-Barr Virus (EBV)  
Esophageal ca.  
Estrogens and/or receptors  
Exosomes and/or endogenous microvesicles  
Extracellular Matrix (ECM)/Stroma  
Fas and/or FasL  
Fatty acids  
Fecal microbiota transplant (FMT)  
Ferroptosis  
Fertility preservation  
FGF and/or receptor  
Fibrosis  
Flow cytometry  
Fluorescence imaging system  
Fluorescence in situ hybridization (FISH)  
Fluorescence resonance energy transfer (FRET)  
Focal Adhesion/FAK  
Folate and/or receptor  
Functional genomics  
Functional validation of target genes  
Fusion genes  
Gastric ca.  
Gene alteration/gain or loss  
Gene expression and/or profile  
Gene regulation  
Gene therapy  
Genetics  
Genome wide screening/GWAS  
Genomic imprinting  
Genomic/Genetic instability  
Genomics  
Genotoxicity  
Glioma and/or glioblastoma  
Glucocorticoids and/or receptors  
Glucose metabolism and/or Warburg effect  
Glycoproteins and/or glycosylation  
Golgi  
G-proteins and/or GPCR  
Granulocytes  
Growth factors and/or receptors  
Growth induction and/or growth arrest  
GVHD and/or Graft versus Tumor  
Gynecological tumors  
Hadron therapy  
Head and neck ca.  
Heat shock proteins (HSP)  
Hedgehog pathway  
Hematologic malignancies  
Hematopoiesis  
Hematopoietic stem cell transplantation (HSCT)  
Hematopoietic stem cells  
Hemostasis and thrombosis  
Hepatitis B virus (HBV)  
Hepatitis C virus (HCV)  
Hepatocellular carcinoma (HCC)  
HER1-2-3-4  
Hereditary DNA repair disorders  
Hereditary tumors  
Herpes virus  
High Mobility Group Proteins (HMG)  
Hippo pathway  
Histone modifications  
HLA/Major Histocompatibility Complex (MHC)  
Hodgkin's lymphoma

Homologous recombination  
Hormones  
Human Papilloma Virus (HPV)  
Hypoxia/Hypoxia-inducible Factors (HIF-1)  
Immune escape  
Immunization  
Immuno-editing  
Immunohistochemistry  
Immunosuppression and/or suppressor cells  
Immunotherapy  
In vitro imaging and/or live cell imaging  
In vivo imaging  
Infection  
Inflammasomes  
Inflammation and/or inflammatory cytokines  
Inflammatory Bowel Disease (IBD)  
Inhibitor of apoptosis proteins (IAPs)  
Innate immunity  
Insulin  
Insulin-like growth factor (IGF) and/or receptors  
Integrins and/or Integrin-linked kinase (ILK)  
Interferons  
Ion channels  
Iron metabolism  
Jak/Stat pathway  
Kidney ca.  
Kinase/Kinome  
Laparoscopy  
Lentivirus  
Leukaemia  
Lipid metabolism  
Lipidic mediators  
Lipidomics  
Lipoxygenases  
Liquid biopsy  
Liver development and/or regeneration  
Locoregional Therapy  
Loss of heterozygosity (LOH)  
Lung ca.  
Lymph nodes  
Lymphatics and/or lymphangiogenesis  
Lymphocyte differentiation  
Lymphomas  
Lysosomes  
Macrophages and/or monocytes  
Magnetic resonance imaging (MRI)  
Mammography  
MAP Kinases  
Mass spectrometry  
Mast cells  
Mathematical modeling  
Mathematical oncology  
Matrix metalloproteases (MMP) and/or inhibitors  
MDM2  
Mechanobiology  
Medical physics  
Medical physics  
Medulloblastoma  
Melanoma  
Membrane biology  
Mesothelioma  
MET/HGF  
Metabolism/Metabolomics  
Metallo-drugs

Metastasis  
Microarrays  
Microbiome  
Microenvironment  
Microfluidics  
microRNA  
Microscopy  
Microsystem technology  
Minimal Residual Disease (MRD)  
Mitochondria  
Mitosis  
Monoclonal antibodies (mAbs) and/or immunoconjugates  
Mouse models  
mRNA processing  
mRNA translation  
Multidrug resistance (MDR)  
Muscle biology  
Mutation (somatic and/or germline)  
Myc  
Myelodysplastic syndromes (MDS)  
Myeloma  
Myeloproliferative neoplasms  
Nanotechnology/Nanoparticles  
Neoadjuvant therapy  
Netrin receptors  
Neuroblastoma  
Neuroendocrine tumors  
Neurons  
Next generation sequencing  
NF- $\kappa$ B family  
Nitric oxide  
NK and/or NKT cells  
NMR spectroscopy  
Non apoptotic cell death  
Non melanoma skin tumors  
Normal stem cells  
Notch pathway  
Nuclear medicine  
Nuclear receptor  
Nuclear structures  
Nucleophosmin (NPM)  
Oncogenes  
Oncogenic virus/Viral oncology  
Organic compounds  
Organoids  
Organ-on-chip  
Orphan tumors  
Osteopontin  
Osteosarcoma  
Ovarian ca.  
Oxidative stress and/or Reactive Oxygen Species (ROS)  
p21 - activated kinases (PAK)  
p53, p63, p73  
Palliative care  
Pancreas ca.  
Pathology  
Patient risk stratification  
Patient-derived xenografts (PDX)  
PDGF and/or receptors  
Pediatric tumors  
Peptides as drugs  
Peroxisome proliferator-activated receptor (PPAR)  
PET and/or PET-CT  
Phage display

Phagocytes and/or phagocytosis  
Pharmacogenetics/Pharmacogenomics  
Pharmacokinetics  
Pharmacology  
Phosphatases  
Phospholipids  
Phosphorylation  
Photodynamic therapy and photodetection  
Photonics  
PI3K/Akt/PTEN/mTOR pathway  
Poly-ADP-ribose polymerase (PARP)  
Polymorphisms/SNPs  
Post-translational modification  
Precancerous lesions  
Preclinical studies  
Prevention and/or chemoprevention  
Primary of Unknown Origin  
Prognosis  
Prostaglandins  
Prostate ca.  
Proteasome  
Protein degradation  
Protein kinase C (PKC)  
Protein microarrays  
Protein structure  
Proteomics  
Radiochemistry  
Radiology  
Radiomics  
Radionuclide therapy  
Radiosensitivity and/or resistance  
Radiotherapy  
Radiotoxicity  
RAS/RAS inhibitors  
Rb/Rb family  
Response and/or resistance to therapy  
RET  
Retinoblastoma  
Retinoic acid and/or receptors  
Retrospective studies  
Rho GTPases family  
Ribosomes  
Risk factors  
RNA binding proteins  
RNA splicing  
Robotics  
Sarcoma  
Screening  
Senescence  
Sensors  
Side effects  
Signal transduction inhibitors  
siRNA and/or non coding RNA  
Small molecule inhibitors  
Smoking  
Soft tissue tumors  
Solid tumors  
Sonodynamic therapy  
SPECT  
Spheroids/3D cultures  
Src family  
Staging  
Statistics  
Stress response

SUMO and/or sumoylation  
Surgery  
Survival analysis  
Synthetic lethality  
Systems biology  
T cells/TCR  
T helpers  
Target therapy  
Telomere and/or telomerase  
Testis ca.  
TGF and/or receptors  
Thermal therapy  
Thymoma  
Thyroid ca.  
Thyroid hormone  
Tissue engineering  
Tissue microarrays (TMA)  
TNF and/or receptors  
Tolerance  
Toll-like receptors (TLR)  
Topoisomerase  
TRAIL  
Transcription  
Transcription factors  
Transcriptome/Transcriptomics  
Transformation assays  
Transgenic mice  
Translation initiation factors  
Translesion synthesis  
Translocation  
Transplantation  
Treg cells  
Triple negative breast ca.  
Tumor ablation  
Tumor antigen  
Tumor dormancy  
Tumor suppressor genes  
Tumor-associated macrophages (TAMs)  
Tumor-infiltrating Lymphocytes (TIL)  
Tumor-stroma interaction  
Tyrosine kinase receptors (TKR) and/or inhibitors  
Ubiquitin and/or ubiquitination  
Ultrasound  
Unfolded Protein response (UPR)  
Urokinase-Plasminogen System (uPA, uPAR, PAI)  
Uveal melanoma  
Vaccine  
VEGF and/or receptor  
Virology  
Von Hippel-Lindau (VHL)  
Wilms' Tumor Gene (WT1)  
Wnt/beta-catenin pathway  
Xenopus  
Yeast  
Zebrafish